(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization** International Bureau



(43) International Publication Date 5 February 2004 (05.02.2004)

PCT

(10) International Publication Number WO 2004/010904 A1

(51) International Patent Classification7: A61L 27/16

A61F 2/16,

(21) International Application Number:

PCT/IL2003/000626

(22) International Filing Date:

29 July 2003 (29.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/398,839

29 July 2002 (29.07.2002) US

(71) Applicant and

(72) Inventor: GROSS, Yosef [IL/IL]; 10 HaNotea Street, 73160 Moshav Mazor (IL).

(74) Agent: KLEIN, David; Dekel Patent Ltd., Beit HaRof'im. 18 Menuha VeNahala Street, Room 27, 76209 Rehovot (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

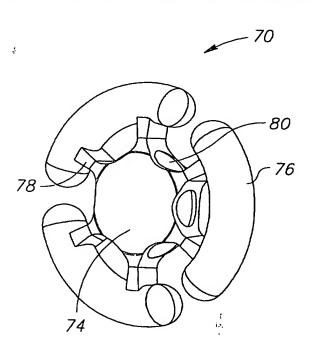
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TENSIONING INTRAOCULAR LENS ASSEMBLY



(57) Abstract: An intraocular lens assembly (70) including a lens assembly comprising an interface element adapted for attachment to an ocular structure, the lens assembly comprising a tensing element (76) adapted to expand and contract relative to the lens assembly and apply a tensing force on the ocular structure directed towards an inner volume of the lens assembly.

WO 2004/010904 A1

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61F2/16 A61L27/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{7}{461}$ A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic d	ata base consulted during the international search (name of dat	a base and, where practical, search terms used)	
EPO-In	ternal, WPI Data			
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of th	e relevant passages	Relevant to claim No.	
X	US 4 888 012 A (HORN GERALD E 19 December 1989 (1989-12-19) column 2, line 50 -column 2, li column 3, line 6 -column 3, li column 4, line 7 -column 4, li	1-5,9, 10,15		
Y A	column 5, line 13 -column 6, l column 8, line 1 -column 8, li claims 1,11; figures 1,3-5	8,11 13-16		
X	EP 0 356 050 A (STORZ INSTR CO 28 February 1990 (1990-02-28) column 4, line 43 -column 6, l column 8, line 58 -column 9, l claims 1-4,6; figures 3A,,3B	1-5,9,10		
Y A	column 9, line 49 -column 10, claim 9; figure 14	8,11 12,16		
χ Furti	ner documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.	
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other r "P" docume	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ant referring to an oral disclosure, use, exhibition or	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
Date of the	actual completion of the international search	Date of mailing of the International sea	arch report	
2	6 November 2003	03/12/2003		
Name and n	nalling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Merté, B		



Internation pplication No PCT/1_03/00626

C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 476 514 A (CUMMING J STUART) 19 December 1995 (1995-12-19) cited in the application column 1, line 15 -column 1, line 24; claim 1; figures 13,14,17	1,11,14, 15
	*	
·		·
	•	
	•	

Information on patent family members

Internation opplication No PCT/IL 03/00626

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4888012	A	19-12-1989	EP JP WO	0397741 A1 7500255 T 8906520 A1	22-11-1990 12-01-1995 27-07-1989
EP 0356050	Α	28-02-1990	US BR CA DE DE EP ES JP JP	4932966 A 8904102 A 1322261 C 68902614 D1 68902614 T2 0356050 A1 2030637 T1 2008242 C 2167157 A 7044938 B	12-06-1990 10-04-1990 21-09-1993 01-10-1992 21-01-1993 28-02-1990 16-11-1992 11-01-1996 27-06-1990 17-05-1995
US 5476514	Α	19-12-1995	US US US US	5496366 A 5674282 A 2001001836 A1 2001016771 A1 6197059 B1	05-03-1996 07-10-1997 24-05-2001 23-08-2001 06-03-2001